



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Compact Wireless LAN Module with Integrated Antenna

BP3595



Providing wireless LAN communication in a smaller form factor

Product Outline

The BP3595 is our newest wireless LAN module that delivers the same functionality as the BP3591 (IEEE802.11b/g/n-compliant type with antenna) but in a smaller size. Features include software compatibility with both the BP3591 and BP3599, making it possible to take advantage of previous development assets, an optimized antenna configuration that eliminates the need for high-frequency designs, and Japan Radio Law certification, enabling immediate operation after embedding in customer applications. In addition, the compact form factor contributes to set miniaturization.

■ Maintains functionality in a smaller size

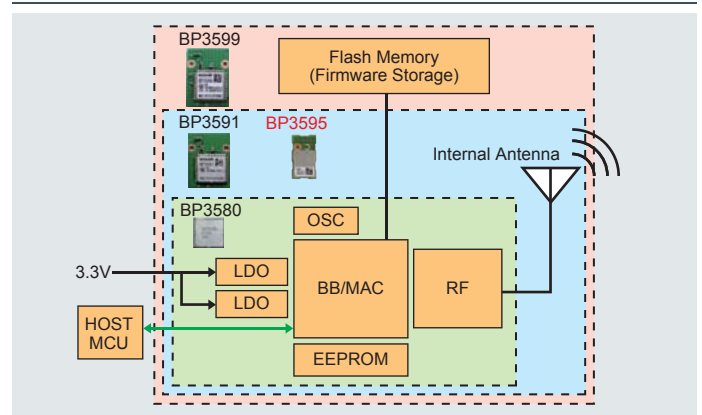
47% smaller

BP3591: 33.1mm x 24mm
BP3595: 27.6mm x 15.3mm

Features the same functions as the BP3591 (IEEE802.11b/g/n-compliant wireless LAN module with built-in antenna) but in a more compact size

*The BP3595 is not compatible with external antennas

■ Wireless LAN module lineup



■ Specifications (BP3595)

Wireless LAN Standards	IEEE802.11b, IEEE802.11g IEEE802.11n, IEEE802.11i
Host I/F	UART (921600bps)
	SDIO Ver. 2.00 (High-Speed Mode)
	USB2.0 (High-Speed Mode)
Communication Frequency	2,400MHz to 2,483.5MHz (Ch1 to Ch13)
	IEEE802.11b: 15dBm±2dB
	IEEE802.11g: 13dBm±2dB
Transmission Power	IEEE802.11n: 12dBm±2dB
	IEEE802.11b: 1 to 11Mbps
	IEEE802.11g: 6 to 54Mbps
Communication Rate	IEEE802.11n: 6.5 to 72.2Mbps
	Access Method
Access Mode	Infrastructure/Ad-hoc
Security	64bit/128bit WEP, TKIP, AES
Supply Voltage	3.3V
Current Consumption	Continuous Data Transmission: 300mA Typ.
	Receiving: 200mA Typ.
	Sleep: 1mA Typ.
Operating Environment	Temp: -40°C to +85°C
	Humidity: <85% (No condensation)

Evaluation Board (UART) [3-Point Configuration]

- Wireless LAN Module BP3591/BP3595/BP3599
- Adapter Board BP359D (For BP3591/9) BP359F (For BP3595)
- UART I/F Board BP359C

*Connector screws (BP359C-accessory) are required to attach the adapter board to the wireless LAN module

Applications

- AV/industrial equipment, sensor/home networks
- Wireless LAN routers and network devices
- Smartphones and connected peripherals
- Products and systems that cannot provide wireless LAN functionality due to insufficient MCU capability or prohibitive development costs